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V0 New Datasets

- Snow Melt Onset Over Arctic Sea Ice from SMMR and SSM/I Brightness Temperatures
- NASA Cold Land Processes Field Experiment (CLPX) In Situ Data
- Radarsat Antarctic Mapping Project Digital Elevation Model Version 2
- RAMP AMM-1 SAR Image Mosaic of Antarctica

ECS New Datasets

Public:

- MODIS/Terra Snow Cover Daily L3 Global 0.05Deg CMG
- MODIS/Terra Snow Cover 8-Day L3 Global 0.05Deg CMG

Upcoming:

- MODIS/Aqua Snow and Ice products
- AMSR-E/Aqua products
- GLAS/ICESat products

Hardware and Software

- **EDG Clients:** SGI Origin 200, IRI X6.5
EDG 3.2.1 (Public and Hidden)
compiled using gcc, gmake, Perl5.6.0, and HDF4.1
(Errors in compiling functions: GD.c, Base64.c, and MD2.c)
EDG 3.4b.4 (ECS-TS1 and ECS-OPS)
compiled using gcc, gmake, Perl5.6.0, HDF4.1, and HDF5-1.4.3
(No compilation errors, once semicolon added to line in
~imswww-VERSION/src/jpeglabel/jpeglabel.c (#include "gdfontg.h";)
and environmental variable defined in
~imswww-VERSION/lib/perl/IW/ModeVIEWBROWSE.pm,
\$ENV{'LD_LIBRARYN32_PATH'} = "/usr/local/hdf5-1.4.3/lib";)
- **VO IMS Server and Database**
SGI Origin 200, IRI X6.5 using INGRES II (New system
in development; will use Sybase)
- **ECS Servers and Databases**
Primarily SGI ChallengeXL, SGI 2000 Origin, and Sun Enterprise 3000
Sybase 11.9.2.5 (Sun) Sybase 11.9.3 (SGI)

NSI DC Data Tools

- GI SMO – Graphical Interface for Subsetting, Mapping, and Ordering <http://nsidc.org/gismo>

Search and order of gridded data sets by collection, parameter (channel), and date. Users may spatially subset data to reduce the total volume delivered.

- PSQ – Polar Spatial Query <http://nsidc.org/psq>

Search and order orbit and scene data sets by collection, parameter (channel), date, and region of interest. Uses an orbit model, yielding more accurate search results. Requested data are gridded to a common grid over the user's region prior to delivery, reducing delivered volume and facilitating data intercomparison.

- GI SMO-E (ECS) better known as WIS³R³D (Web Interface for Searching, Subsetting, Stitching, Reprojecting, Resampling, and Reformating Data)

Will perform the same functionality and more as both GI SMO and PSQ for ECS data.

NSIDC Data Tools (con.)

- MS2GT - MODIS Swath-to-Grid Toolbox
<http://nsidc.org/PROJECTS/HDFEOS/MS2GT>
Reads MODIS swath HDF-EOS files and produces gridded data in a variety of map projections. Multiple input files from successive "scenes" can be processed together for a seamless output grid.
- PHDIS - Polar HDF-EOS Data Imaging and Subsetting Tool
<http://nsidc.org/PROJECTS/HDFEOS>
(Part of the Polar Pathfinder HDF-EOS Pilot Project)
User may simultaneously open several HDF-EOS files, display their contents, and visualize, compare, and extract any of the data fields.
In development: Functionality to overlay an image of selected bits on another image, geophysical retrieval, or imagery.
- hdfeos2bin.pro (<http://nsidc.org/data/hdfeos/hdfeos2bin.html>)
Extracts data arrays from an HDF-EOS file and creates binary files.
Meant to demonstrate the use of HDF-EOS library calls without installing and linking to HDF and HDF-EOS libraries, as IDL provides these libraries as built-in functions and procedures.

NSI DC Issues and Concerns

1. Users would like to see data set short name (ex. MOD10A1) in addition to the data set long name.
2. We need a way to set a default order option in Personal Preferences, so the user does not have to select order options for every dataset individually. Example: if a user specifies FtpPull as the default, then FtpPull would automatically be selected if it was available for that data set. If FtpPull was not available, the user could specify another option in the usual way.

Additionally...

- Integration of HEW Subsetting Appliance (HSA) with ECS and EDG is in development. HSA version 7 was moderately successful; however, versions 8 and 9 failed (no email notification between ECS and HEW, once data were staged).
- Working with ECHO Operations group. We have exported metadata to ECHO, and ECHO successfully placed orders to our ECS gateway.